

Module 10b Due the next class meeting after the 2nd half of Module 10 is done in class.

Each of the sample code segments below has a MII>1. Why? Show your work for full credit.

```
loopA: ldh  *a_m++, a
        ldh  *b_m++, b
        add  a,5,c
        mpy  a,c,d

[b0]   sub  b0,1,b0
[b0]   b    loopA
```

```
loopB: ldw   *a_m++, a
        ldw   *b_m++, b
        mpysp a,b,prod
        addsp sum,prod,sum

[b0]   sub  b0,1,b0
[b0]   b    loopB
```

```
loopC: ldh  *a_m++, a
        ldh  *b_m++, b
        mpy  a,c,c
        add  b,c,d

[b0]   sub  b0,1,b0
[b0]   b    loopC
```

Note: `addsp` and `mpysp` are floating-point instructions that are like their integer counter parts, except their results don't appear until 3 cycles later.